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A.D. 1819 . . . . . N<sup>o</sup> 4418.

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S P E C I F I C A T I O N

OF

CHARLES WILLIAM FEUILLADE  
AUBUSSON.

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AID-FORM FOR THE HUMAN BODY.

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L O N D O N :

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**Aid-form for the Human Body.**

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**FEUILLADE AUBUSSON'S SPECIFICATION.**

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, CHARLES WILLIAM FEUILLADE AUBUSSON, heretofore known by the name of Charles William Feuillade, late of Mortimer Street, Cavendish Square, in the Parish of Saint Marylebone, in the County of Middlesex, but now of George Street, 5 Hanover Square, in the Parish of Saint George, in the said County of Middlesex, Gentleman, send greeting.

WHEREAS His late Majesty King George the Third, in and by His Letters Patent under the Great Seal of Great Britain, bearing date at Westminster, the Fourth day of December last, for Himself, His heirs, and successors, did give and grant unto me, the said Charles William Feuillade Aubusson (by my then name of Charles William Feuillade), my executors, administrators, and assigns, His especial licence, full power, sole privilege and authority, that I, the said Charles William Feuillade Aubusson (by my then name of Charles William Feuillade), my executors, administrators, and assigns, 15 and every of them, by myself or themselves, or by my and their deputy or deputies, servants or agents, or such others as I, the said Charles William Feuillade Aubusson (by my then name of Charles William Feuillade), my executors, administrators, or assigns, should at any time agree with, and no others, from time to time and at all times thereafter, during the term of years 20 therein expressed, should and lawfully might make, use, exercise, and vend, within England, Wales, and the Town of Berwick-upon-Tweed, my Invention of "AN IMPROVED MECHANICAL APPARATUS, INSTRUMENT, OR MACHINE, INTENDED BY ME TO BE CALLED AN AID-FORM, FOR THE PREVENTION AND REMEDY OF DEFORMITY



*Feuillade Aubusson's Improved Machine for Remedying Deformity in the Body.*

AND ILL SHAPE IN THE TRUNK OR BODY PARTS OF HUMAN BEINGS ;” in which said Letters Patent there is contained a proviso obliging me, the said Charles William Feuillade Aubusson (by my then name of Charles William Feuillade), by an instrument in writing under my hand and seal, particularly to describe and ascertain the nature of my said Invention, and in what manner the same 5 is to be performed, and cause the same to be inrolled in His Majesty’s High Court of Chancery within six calendar months next and immediately after the date of the said recited Letters Patent, as in and by the same, reference being thereto had, will more fully appear.

NOW KNOW YE, that in compliance with the said proviso, I, the said 10 Charles William Feuillade Aubusson, do hereby declare that the nature of my said Invention, and the manner in which the same is to be performed, are particularly described and ascertained in and by the Drawing hereunto annexed, and the following description thereof (that is to say) :—

Fig. 1 is a back view of the aid-form, with part of the strap omitted. 15  
 Fig. 2, a side view of the same. Fig. 3, a top view thereof. Fig. 4, an inside view of part of Fig. 1. Fig. 5, the main adjusting joints, and separate parts thereof in detail. Fig. 6, another construction of some of its parts. Fig. 7, a front and edge view of one of the two spring blades which unite the treble-flap hinges to the main adjusting joints, and part of the covering 20 thereof. Fig. 8, the left treble-flap hinge and the separate parts thereof in detail. Fig. 9, the right treble-flap hinge. Fig. 10, the metal part of the left shoulder ring. Fig. 11, the metal part of the right shoulder ring. Fig. 12, the stuffed elastic pad of the right shoulder ring, Fig. 13, the stuffed elastic understrap of the right shoulder ring. Fig. 14, the key or compound turn- 25 screw. The same letters and figures refer to the same parts in all the Figures. A, A, the belt and buckle to be fastened round the waist of the wearer of the aid-form. B, the foundation plate of the main adjusting joints. C, C, &c., the screws which secure it to the belt. D, D, &c., holes in the plate B for the screws C, C, &c. to pass through. E, the slip or staple which keeps the right 30 and left threaded screw in its place, and is itself affixed to the plate B by the two screws F, F, entering into screwed holes 7, 7, in that plate. G, G, the right and left threaded screw. H, the groove between the collars in which the clip E lies. I, I, the collars, having holes in them to turn the screws G, G, round either way as may be required. J, J, the screwed nuts or 35 sockets in which the screws G, G, act so as to cause them to approach towards or to recede from each other uniformly. Their under sides are made flat, as shewn in the end view, and lie upon the plate B, which prevents them from being turned round, and their outward ends are rounded off. K, K, the



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wings or carriers of the main adjusting joints which turn upon the screws L, L, as centres, and which screws are screwed firmly into the plate B at M, M. N, N, countersunk holes in the thick hooked ends of the wings K, K, for the heads of the screws L, L, to act in as studs or pivots. O, O, the hooked  
5 recesses or cavities which rest or abut against the rounded ends of the screwed nuts J, J. P, P, pairs of screwed holes for the screws Q, Q, to enter, which unite the spring blades with the main adjusting joints. R, R, a cap or cover which is fixed over the screws G, G, the nuts J, J, and the hooked ends of the wings O, O, by means of the small screws S, S, which pass through holes T, T,  
10 in the cap R, R, and screw into holes U, U, made in the heads of the screws L, L, to receive them. In Fig. 6 is shewn another method of applying the screwed nuts or sockets J, J, upon the plate B, in which studs V, V, made on the under sides of the nuts, slide in grooves W, W, made in the plate B to receive them, and thus prevent those nuts from being disengaged from the  
15 screws G, G. In Fig. 7, X, X, are the holes in the spring blade Y through which the screws Q, Q, pass to unite it with one of the carriers K of the main adjusting joints B. Z is an adjusting plate, rivetted or otherwise fixed upon the spring blade Y. In this plate are three series of holes *a, a, a*, arranged in a circle around a central hole *b*. Three of these holes *a, a, a*, receive into  
20 them three projecting steady pins or studs *c, c, c*, which are fixed into the flap or plate *d* of one of the treble-flap hinges shewn in Fig. 8, and which is secured to the spring blade Y by a screw *e* passing through the hole *b* in the plate Z, and screwed into the plate *d*. *f* is one of the knuckles which is received between the two others *g, g*, of the flap or plate *h*, and united therewith by the  
25 pin *i* passing through the holes made in the knuckles, and thus forming one of the two hinges. *j* is an abutment or stop in the knuckle *f* to limit the motion of the hinge. *k* is another knuckle formed upon the plate or flap *h*, and which is received between two others *l, l*, on the plate or flap *m*, and connected therewith by the pin *n* passing through the holes in the knuckles,  
30 and thus forming another of the two hinges which unite the three plates or flaps *d, h*, and *m* together. *o* is one of the two abutments or stops in the knuckles *l, l*, to limit the motion of the latter hinge. *p* is a screw, the head of which is firmly rivetted into the plate or flap *d*, and making an angle therewith. This screw is entered a convenient space into the female screw or nut *q*  
35 (the conical stem of which is loosely rivetted in the conical hole in the plate *h* so as to turn and play freely therein) previous to uniting the joint or hinge. *r* is another screw firmly rivetted into the plate or flap *m*, and also making an angle therewith. This screw *r* is also to be entered into the female screw or nut *s*, which is also loosely rivetted into the flap or plate *h*, before uniting the



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joint or hinge connecting them together, and the whole will appear as shewn in Fig. 8. *t*, Fig. 10, is the metal part of the left shoulder ring, and is attached to the plate *m* of the treble-flap hinge by two screws with conical heads (one of which is shewn at *u*, in Fig. 8) which pass through holes *v*, *v*, in the plate or flap *m*, and screw into two other holes *w*, *w*, made in the end 5 of the metal piece *t* to receive them. *x*, *x*, &c., are notches made at each end of the metal piece *t* for the purpose of securely attaching a stuffed elastic understrap to it (which is formed of calico stuffed with wool, similar to that shewn at Fig. 13,) by wrapping strong threads around them, which lodge in the notches, and are properly fastened. A stuffed elastic pad, similar to that shewn 10 for the right shoulder ring in Fig. 12, and which is formed of two pieces of calico stitched together and filled with wool, is also to be placed underneath the metal piece *t*, and the extended calico border around the pad is to be wrapped over the top of the metal piece previous to covering the pad inside of the ring with soft leather, and the outside of it with silk ribband, and which 15 being stitched together, complete it as shewn at 2 in Figs. 1, 2, and 3. The spring blades (one of which is shewn at *Y* in Fig. 7) are to be enclosed in cases, likewise composed of soft leather and silk ribband stitched together, and in the leather are to be cut circular openings similar to those shewn at *y*, *y*, *y*, to permit the studs *c*, *c*, *c*, of the treble-flap hinges to enter the adjusting holes 20 *a*, *a*, *a*, made in the plate *Z* to receive them. The Drawings in outline over Figs. 10 and 11 shew the developements or forms of the metal pieces *t*, *t*, previously to their being bent into the shapes shewn by the coloured Drawings in Figs. 10 and 11.

I shall now proceed to describe the applicability of the various parts consti- 25 tuting the aid-form to their particular uses; and first, that I can vary the angles of inclination of the spring blades *Y*, *Y*, at pleasure by merely turning the right and left-threaded screw *G*, *G*, either way as required, by putting the single point *z* of the key, Fig. 14, into one of the holes made in the collars *I*, *I*, Fig. 5, for that purpose. The adjustments of these spring blades *Y*, *Y*, and 30 the shoulder rings affixed to them, can also be varied in two several ways, for instance, by placing the three studs *c*, *c*, *c*, of the plate or flap *d* of the treble-flap hinge into either of the holes of the three series of seven holes each *a*, *a*, *a*, in the plate *Z* of the spring blades *Y*, *Y*, and also by turning the square-headed nuts *s*, *s*, of the screws *p* and *r* of the treble-flap hinges, by applying 35 the gap or square opening 3 in the key, Fig. 14, upon them, and turning them either way, as required. 4, 4, are two studs made on one of the extremities of the key, Fig. 14, to enter into the holes made in the heads of the screws *Q*, *Q*, &c. to turn them by; and 5 is an ordinary turncrew added to the key, Fig. 14,



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to turn the screws *e, e*, with, or holes may be provided in the heads of those screws for the other studs *6, 6*, to enter, whereby to turn them. The spring blades *Y, Y*, and wings *K, K*, with the shoulder rings, may also be fixed to the plate *B* either by a single rule joint, the centre pin of which has a head to it, 5 and is either rivetted at its other end into the plate *B*, or screwed to it by a screw and nut at the back or inside of it. They may also be affixed to that plate by two separate screws, with shoulders on their cylindrical stems, passed through holes in the wings *K, K*, and screwed into holes made in the plate *B* to receive them; in either of these latter cases, however, it will be necessary 10 to limit the extent of the opening between the upper parts of the spring blades by a ligature of some kind, as, for instance, by two straps and a buckle, one end of each strap being secured to each spring blade by the screw *e* passing through it, and its broad head pressing upon it. I, however, prefer the first-described method of connecting those parts to either of the last-mentioned 15 ones.

I shall proceed to describe generally the manner of applying my aid-form in use, as it will require a particular adaptation of its several parts to each particular case. The arms of the wearer being passed through the shoulder rings, and those rings slipped up to the shoulders, the belt is to be buckled 20 around the waist. The angle or distance between the tops of the spring blades must be regulated by turning the right and left-threaded screw either way, as before described, and the situation of the shoulder rings be adjusted as circumstances may require by the means already mentioned. These situations should however be previously found as nearly as may be by comparing the 25 positions of the various parts of the aid-form, and their sizes with the person who is to wear it. It will however be better that the space between the spring blades be made rather wide than is proper before the aid-form is put on, and that it be regulated correctly afterwards. It will generally be required that the shoulder rings should remain nearly in a vertical position in use, with their 30 metal parts lying upon the shoulders of the wearer, and the spring blades passing immediately across the shoulder blades, so as to keep those parts of the trunk or body in a proper and natural position, and thereby conduce to remedy any deformity and ill shape which may have taken place, or act so as to prevent the tendency thereto. The metal pieces which form parts of the 35 shoulder rings are employed in order to keep the rings in certain fixed positions round the shoulders, so as not to hinder or obstruct the circulation by their tightness, as is the case where straps are employed; and as tightness is not necessary they are thereby prevented from cutting or galling the shoulders or armpits, which unpleasant effect is also further hindered by the



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softness and elasticity of the parts which pass over and under the shoulders. The freedom of motion allowed to the wearer in every proper position is completely afforded by the variable motions of which the aid-form is susceptible, and unnecessary constraint is thereby obviated.

In witness whereof, I have hereunto set my hand and seal, this Third 5  
day of June, in the year of our Lord One thousand eight hundred and  
twenty.

CHAS<sup>S</sup> WILL<sup>M</sup> (L.S.) FEUILLADE AUBUSSON.

Signed, sealed, and delivered (being  
first duly stamped) in the presence of

MATT<sup>W</sup> HEATH,

10, King's Bench Walk,  
Temple.

10

AND BE IT REMEMBERED, that on the Third day of June, in the  
first year of the reign of His Majesty King George the Fourth, the said 15  
Charles William Feuillade Aubusson came before our said Lord the King  
in His Chancery, and acknowledged the Instrument aforesaid, and all and  
every thing therein contained and specified, in form above written. And  
also the Instrument aforesaid was stamped according to the tenor of the  
Statute made in the fifty-fifth year of the reign of His late Majesty King 20  
George the Third.

Inrolled the Third day of June, in the year of our Lord One thousand  
eight hundred and twenty.

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Printers to the Queen's most Excellent Majesty. 1856.















